

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 59-035347

(43)Date of publication of application : 27.02.1984

(51)Int.Cl.

H01J 49/10

G01N 27/62

G01N 27/68

(21)Application number : 57-143254

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(22)Date of filing : 20.08.1982

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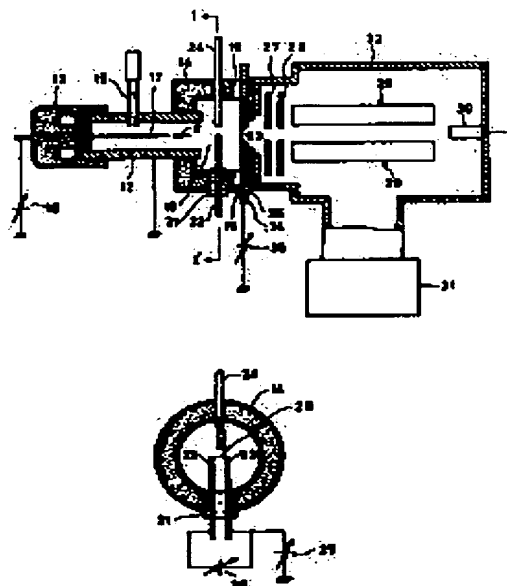
(54) ION GENERATOR

(57)Abstract:

PURPOSE: To ionize a sample by an excitation element or ions by a method wherein a needle-shaped electrode is arranged inside a cylindrical electrode, carrier gas is supplied from the needle-shaped electrode toward the open end of the cylindrical electrode while high voltage is impressed between both electrodes.

CONSTITUTION: One end of a cylindrical electrode 12, whereto ground potential is applied, is sealed by an insulating cap 13 while the other end is inserted into a sample ionization chamber 15 inside an insulating ring 14.

The needle-shaped electrode 17 connected to a power supply 16 is inserted into the electrode 12 while carrier gas is supplied there through a leading-in pipe 18. The carrier gas flows into the ionization chamber 15 then being exhausted through an exhaust port 19. A filament 20 is arranged in the carrier gas flow while being spanned between the supporting electrodes 22 and 23 planted in the base 21. Sample liquid drops onto the filament 2 from the sample leading-in pipe 24 while the acceleration voltage is impressed thereon from the electrode 25. The electrode 17 is made movable back and forth inside the electrode 12 while corona discharge is caused by application of negative high voltage, thus being able to be ionized by an excitation element or ions.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision]

of rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]